

Method and installation for the production of hot-rolled strip having a dual-phase structure

Results of industrial test program

Industrial test production heat	Sample no.	Hot strip thickness	Hot strip width	Strip temperature after test finishing stand T_{test}	Delivery speed	Holding time	Coiling temperature T_{coiling}	Mechanical properties							
								Longitudinal sample piece				Transverse sample piece			
								Yield strength in MPa	Tensile strength in MPa	Ratio yield strength to tensile strength	Fracture elongation in %	Yield strength in MPa	Tensile strength in MPa	Ratio yield strength to tensile strength	Fracture elongation in %
A	A1	2.8	1300	800 - 815	5.6	2.36	300	336	639	0.53	23	317	620	0.51	21
	A2	2.6	1260	800 - 815	5.7	2.32	300-320	323	621	0.52	23	325	629	0.53	21
	A3	2.6	1260	800 - 815	5.7	2.32	300-320	319	606	0.53	27	329	604	0.54	23
B	B1	2.2	1260	800 - 815	6.1	2.16	260-300	-	-	-	-	324	572	0.57	24
	B2	2.1	1254	800 - 815	6.4	2.06	360/315/260	384	584	0.66	18	399	597	0.67	17

*) Successful operation.
**) Not successful operation (Tensile strength and fracture elongation low).

Chemical Composition

Heat	%				
	C	Mn	Si	Cr	C _{equi}
A	0.068	1.13	0.406	0.614	0.025
B	0.061	1.16	0.371	0.273	0.036